

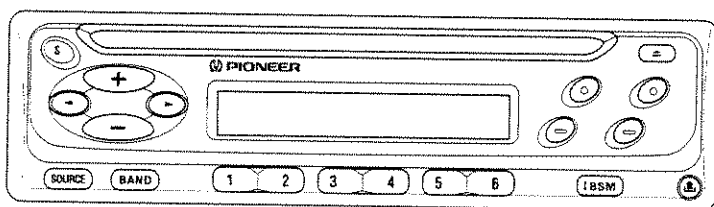
**High power CD player
with FM/AM tuner**

**Puissant lecteur de CD
avec syntoniseur FM/AM**

SUPER  TUNER III

DEH-523

Operation Manual Mode d'emploi



 **PIONEER®**
The Art of Entertainment

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About This Manual

This tuner/CD player features a number of sophisticated functions ensuring superior reception and operation. All are designed for the easiest possible use, but many are not self-explanatory. This operation manual is intended to help you benefit fully from their potential and to maximize your listening enjoyment.

We recommend that you familiarize yourself with the functions and their operation by reading through the manual before you begin using the tuner/CD player. It is especially important that you read and observe the "Precautions" on this page and in other sections.

Precautions

CAUTION: USE OF CONTROL OR ADJUSTMENT OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

CAUTION: THE USE OF OPTICAL INSTRUMENTS WITH THIS PRODUCT WILL INCREASE EYE HAZARD.

* Keep this manual handy as a reference for operating procedures and precautions.

* Always keep the volume low enough for outside sounds to be audible.

* Protect the tuner/CD player from moisture.

* If the battery is disconnected, the preset memory will be erased and must be reprogrammed.

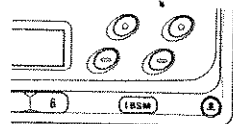
* If this product fails to operate properly, contact your dealer or your nearest authorized PIONEER Service Station.

Theft protection

The front panel of the main body is detachable to discourage theft.

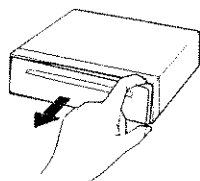
Detaching the front panel

1. Press the **Detach** button.



2. Grip the right side of the front panel and pull it toward you.

Take care not to grip it tightly or drop it.

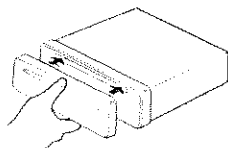


3. Use the protective case provided to store/carry the detached front panel.



Replacing the front panel

• Replace the front panel by clipping it into place.



Precaution:

- Never use force or grip the display tightly when removing the front panel or replacing the front panel.
- Avoid subjecting the front panel to excessive shocks.
- Keep the front panel out of direct sunlight and high temperatures.

In addition to the Detachable Face Security of this product, Pioneer has incorporated a new feature "**Detachable Face Security Alarm**". This feature is designed to protect your new Pioneer car stereo as well as your vehicle contents.

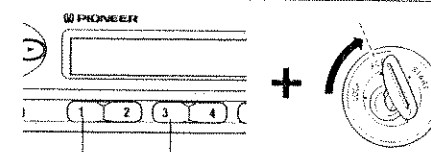
DFS Alarm Menu

Pioneer has developed a menu display that allows you to set-up your Alarm to meet your personal needs. By scrolling through this menu it is possible to select your own "Entry Delay Time", "Speaker Output Volume" and "Door System Type".

• Select the DFS Alarm Menu.

While pressing buttons **1** and **3**, turn the ignition from the OFF (Lock) to ON (ACC) position.

"A OFF" appears on the display.



Activating the DFS Alarm Feature

Initially from the factory the DFS Alarm feature is not activated.

"A OFF" is displayed.

1. Depress the (▶) button to activate Alarm.

"AL ON" appears on the display.



2. Depress the (+) button to advance to next selection.

"DL 15" appears on the display.



Setting Entry Delay Time

Initially the "Entry Delay Time" is set to 15 seconds. The Entry Delay Time can be adjusted to be 0, 5, 15, 30, 45 or 60 seconds.

1. Toggling between the (◀), (▶) buttons allows you to decrease or increase the "Entry Delay Time".

Display shows "DL 0" — "DL 60".

2. Depress the (+) button to advance to next selection.

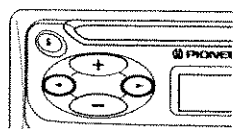
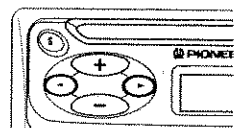
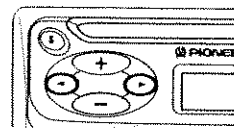
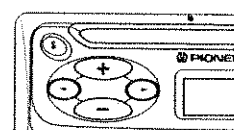
"SP ON" appears on the display.

Activating Internal Speaker ON/OFF

This feature allows you to select whether or not the speaker output is sounded when the "DFS Alarm" is triggered. Initially from the factory the speaker output is activated. You can defeat the internal speaker output by pressing the (◀) button. ("S OFF" appears on the display.)

- Depress the (+) button to advance to next selection.

"T OFF" appears on the display.



Speaker Volume Output Adjustment

Note: If the Speaker Output has been selected to be OFF, then this menu will not appear.

If the Speaker Output has been selected then it is possible to adjust the volume of the speaker output for when the Alarm is triggered. To adjust the volume you must engage the "TEST MODE".

1. To engage the "TEST MODE" depress the (▶) button.

In this test mode the speakers will sound.

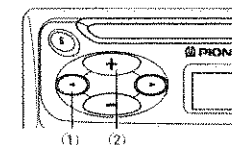
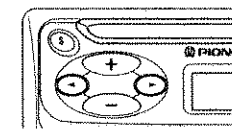
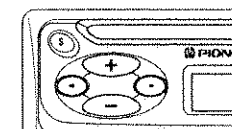
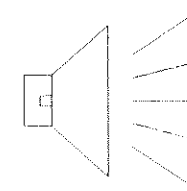
"TL 10" appears on the display.

2. To increase the volume depress the (+) button. To decrease the volume depress the (−) button.

Display shows "TL 10" — "TL 30".

3. After selecting your preferred volume setting, cancel the Test Mode by pressing the (◀) button. Advance to the next selection by pressing the (+) button.

"DR L" appears on the display.



Selecting Door Switching Systems

It is necessary to select the correct Door System Type (Negative or Positive switching) for that of your vehicle. Initially, the system is set for vehicles with the grounding type (Negative switching).

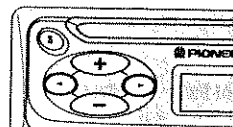
Select the correct Door system type for your vehicle from the table opposite. (eg. Set to "DR L" for GM vehicles.)

* Some Models Only.

(−) "DR L"
GM, CHRYSLER, JAPANESE, EUROPEAN

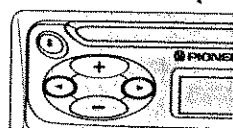
(+) "DR H"
FORD, JAGUAR, MERCEDES*, etc

1. Toggling between the (◀), (▶) buttons will allow you to change from "DR L" to "DR H".



2. Depress the (+) button to advance to next selection.

"CLOSE" appears on the display.



Door System Confirmation

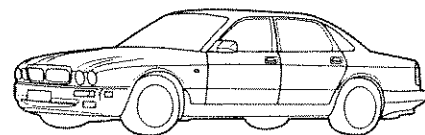
The door system confirmation feature was incorporated to ensure that the correct door system type has been selected.

1. Firstly, close all the doors. If the correct door system type has been selected then the Display will show "CLOSE".

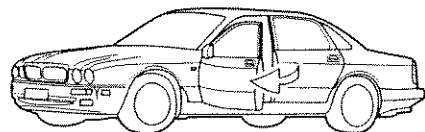
If not, return to the previous menu by pressing the (-) button and select the alternative door system type. Lastly, confirm each door triggers the Alarm by opening and closing each door.

As the door is opened the display should change accordingly ("CLOSE" ~ "OPEN").

- Display shows "CLOSE".

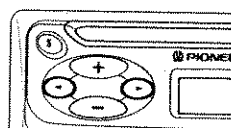


- Display shows "OPEN".



2. After confirming correct operation, press the (+) button to exit the Alarm Menu.

Display will turn off.



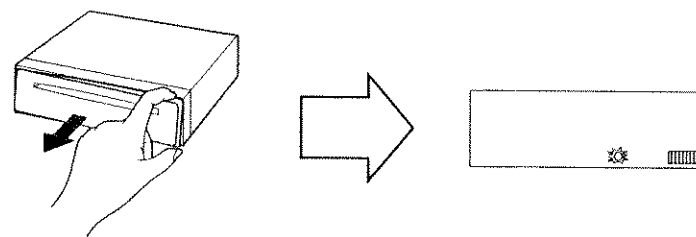
Setting of your DFS Alarm is now complete. Note in the case that the battery is disconnected or the reset button is pressed, it may be necessary to re-program the DFS Alarm Menu; otherwise this setting needs to be done only once.

Operation

Providing the installation and setting of the DFS Alarm Menu has been performed correctly, operation of the DFS Alarm is very simple.

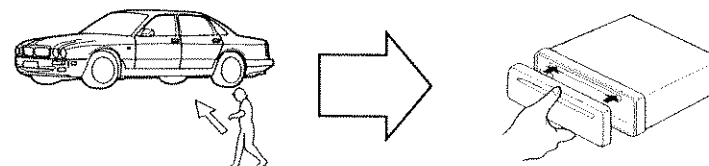
Arming Alarm

To arm your Alarm simply turn off the ignition and detach the front panel, as described on page 4. After detaching the front panel the DFS Alarm will automatically arm itself after 30 seconds, providing all of the doors are closed. If after 30 seconds, a door still remains open the DFS Alarm will not arm until the last door has been closed. After closing all of the doors, ensure that they are securely locked. The LED indicator on the main unit will flash as a visual deterrent. Your vehicle is now protected by your DFS Alarm.



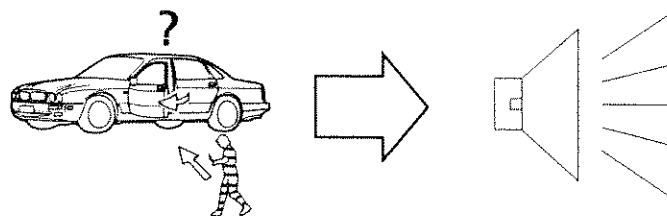
Disarming Alarm

Upon entering your vehicle, and within the "Entry Delay Time" set within the DFS Alarm Menu, attach your Pioneer front panel as described on page 4. If you have forgotten your detachable face simply insert your ignition key and turn it to the "ON" position within the "Entry Delay Time". This will disarm your Alarm.



Entry Detection

If after the "Entry Time Delay" has elapsed and neither the front panel was replaced nor the ignition turned "ON"; then the DFS Alarm will be triggered and the speakers (if activated in the DFS Alarm Menu) will sound. The DFS Alarm will sound for 60 seconds and will repeat 5 times if any door is left open or reopened. After the fifth time the DFS Alarm will reset to prevent continuous sounding and prevent your battery from discharging.



Precaution:

Upon returning to your vehicle and before opening any doors, check to see if the LED indicator is still flashing. If the LED is no longer flashing, it indicates that the Alarm has sounded. Disarming, as described above, is still necessary.

Displaying the time

- To turn the time display ON or OFF, press the **Clock** button with the **Source** ON.

The time display disappears temporarily when you perform another operation, but the time indication returns to the display after 25 seconds.

Setting the time

Setting the Hours

- While holding down the **Clock** button, press button **1** to set the hour.

Setting the Minutes

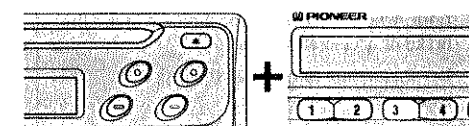
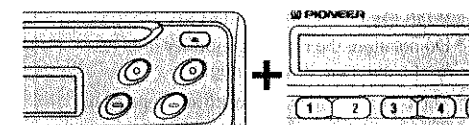
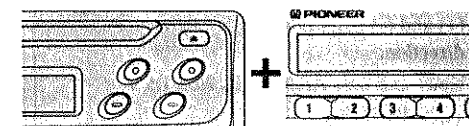
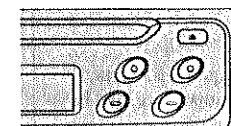
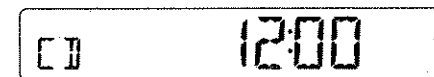
- While holding down the **Clock** button, press button **2** to set the minute.

When you release the **Clock** button, the second count begins from 00 seconds.

- While holding down the **Clock** button, press button **3** to reset the minute and second indications to zero.

(eg. If the clock is reset while a time in the "11:30" — "12:29" range is displayed, the indication changes to "12:00".)

Note: The hour and minute can be advanced by pressing the respective buttons either consecutively or continuously.



This product is equipped with a remote controller for convenient operation.

- Point the controller in the direction of the front panel to operate.
- When the controller is not in use, attach it firmly to the center console with the provided Velcro tape.

Precaution:

- * The remote controller is required for some control functions. Give it proper care, and be careful not to misplace it.

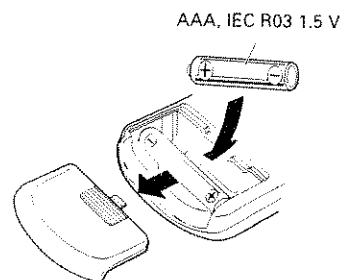
Batteries

- Remove the cover on the back of the remote controller and insert the batteries with the (+) and (-) poles pointing in the proper direction.

Note: Use only **AAA** or **IEC R03 1.5 V** batteries.

Precaution:

- * Remove the batteries if the remote controller is not used for a month or longer.
- * Do not store the remote controller in high temperatures or direct sunlight.
- * The controller may not function properly in direct sunlight.
- * Do not let the remote controller fall onto the floor, where it may become jammed under the brake or accelerator pedal.
- * Do not attempt to recharge the supplied batteries.
- * Do not mix new and used batteries.
- * If the event of battery leakage, wipe the remote controller completely clean and install new batteries.



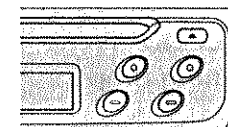
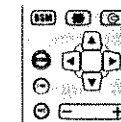
Remote Controller Learn Function

The remote controller's Learn function enables you to program the **LRN** button to perform the functions of any main unit button, except the Detach function.

1. Select the Learn mode by pressing the **LOUD** button for 2 seconds or longer.

"LEARN" appears on the display.

2. Press the button on the main unit whose function you want the remote controller to perform within 8 seconds.

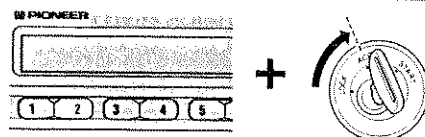


Changing the AM Tuning Step

The tuning step employed in the tuner's AM band can be switched between 9 kHz and 10 kHz per step. Reset the tuning step from 9 kHz (the factory preset step) to 10 kHz when using the tuner in North, Central or South America.

- While holding down button 2, turn the ignition from OFF (Lock) to ON (ACC).

Specifications		Initial Setting	New Setting
AM	Tuning Steps	9 kHz	10 kHz
	Frequency range	531 — 1,602 kHz	530 — 1,710 kHz

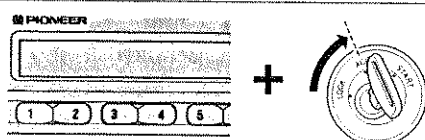


Changing the FM Tuning Step

The tuning step employed by Seek Tuning in the FM mode can be switched between 100 kHz (preset at the factory) and 50 kHz.

- While holding down button 1, turn the ignition from OFF (Lock) to ON (ACC).

Note: If Seek Tuning is performed in 50 kHz steps, stations may be tuned in imprecisely. Tune in the stations with Manual Tuning or use Seek Tuning again.



Tuner Source and Band

- Push the **SOURCE** button or the **Tuner** button to select **Tuner**.

The Frequency appears on the display.
(“CD” indicator lights when stereo station selected.)

- Use the **BAND** button to select the desired band.

(FM1, FM2, FM3, AM)

Manual and Seek Tuning

Both Manual (step-by-step) and Seek (automatic) tuning are available.

- Press the **MANU** button to switch alternately between the Manual and Seek tuning modes.

The “MANU” indicator lights when Manual tuning is selected and turns OFF when Seek tuning is selected.

- Press the (▶) button to tune the receiver to a higher frequency.

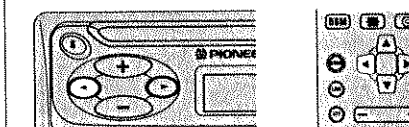
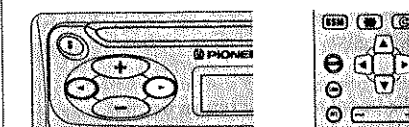
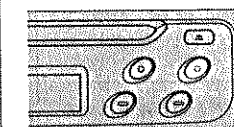
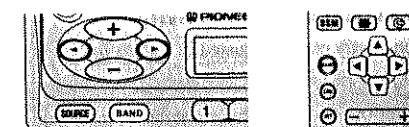
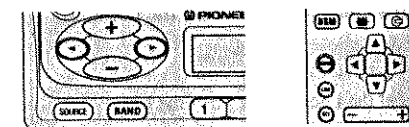
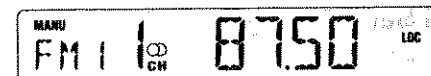
MANU ON (Manual tuning):

The frequency changes step by step.

MANU OFF (Seek Tuning):

The tuner automatically seeks out and receives broadcasting stations.

- Press the (◀) button to tune the receiver to a lower frequency.



Local Seek Tuning

This mode selects only stations with especially strong signals.

To Select Local Mode

- Press the **Local** button to enter the Local mode.
"LOC" indicator lights.
To cancel the Local mode, press the Local button again.

Adjusting Local Seek Sensitivity

The Sensitivity can be adjusted in 4 steps for FM and 2 steps for AM.

- Depress the **Local** button for 2 seconds or longer.

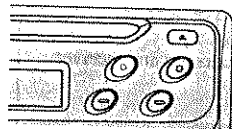
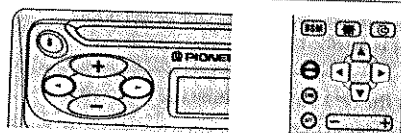
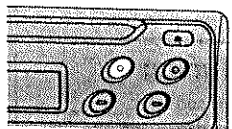
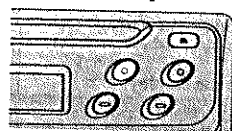
The current Local Seek sensitivity (eg. "LOC-2") is displayed.

Repeat to switch in and out of the Local Seek Sensitivity setting mode.

The display reverts to the previous indication after 5 seconds of inactivity.

- Use the (**◀**) button or the (**▶**) button to raise or lower the sensitivity of Local Mode Seek tuning.

- Press the **Local** button to return normal display.



Preset Tuning

Up to 18 FM stations (6 each in FM1, FM2 and FM3) and 6 AM stations can be stored in memory.

Store the stations in memory under buttons 1-6 beforehand with the BSM (Best Stations Memory) or Preset Memory function.

BSM (Best Stations Memory)

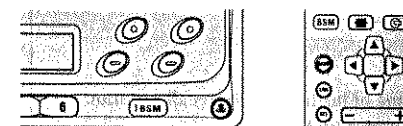
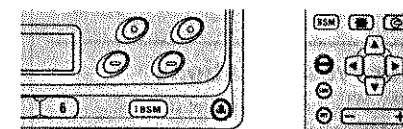
The BSM function stores stations in memory automatically.

- Press the **BSM** button for 2 seconds or longer to activate the BSM mode.

"BSM" starts flashing on the display.

The stations with the strongest signals will be stored under buttons 1-6 and in order of their signal strength.

- To cancel the process before completion, press the **BSM** button again.



Preset Memory

The Preset Memory function stores stations in memory manually.

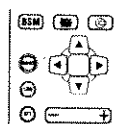
1. Select the station whose frequency you want to store in memory.
2. Press one of buttons 1-6 for 2 seconds or longer.
The station is stored in memory under the selected button.
The selected preset number flashes on the display, then changes to a steady indication when input is completed.

Recalling Preset Stations

There are 2 ways to recall preset stations.

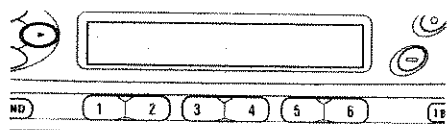
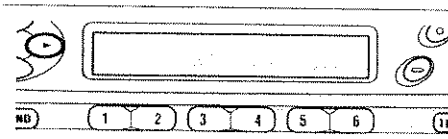
Remote Controller:

- Press the (▲) or (▼) button to recall a station preset under buttons 1-6.
The recalled preset number is shown on the display.



Main Unit:

- Press one of buttons 1-6 to recall a station preset under that button.
The recalled preset number is shown on the display.



The audio modes are selected for adjustment with the S button. Volume adjustment is the default mode. When another mode is selected for adjustment, the setting returns to the Volume mode after 8 seconds.

Volume Adjustment

- Press the (+) button or the (-) button repeatedly to raise or lower the volume.

The display shows low to high volumes from "VOL00" to "VOL30."

Note: Holding down the buttons increases or decreases the volume level more rapidly.

Volume Attenuator

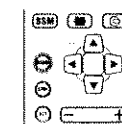
The attenuator reduces the volume instantly.

- Press the ATT button to cut the volume by about 90%.

"ATT" flashes on the display.

Press the ATT button again to return to normal volume.

The Attenuator mode can also be canceled with the (+) or (-) button.



Using the F. I. E. function

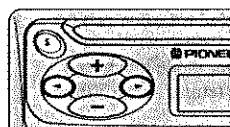
The F. I. E. (Front Image Enhancer) function is a simple method of enhancing front imaging by cutting mid- and high-range frequency output from the rear speakers, limiting their output to low-range frequencies.

Note When the F. I. E. function is deactivated, the rear speakers output sound in all frequencies, not only bass sounds. Reduce the volume before disengaging F. I. E. to prevent a sudden increase in volume.

1. Press the **S** button once to select the F. I. E. mode

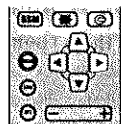
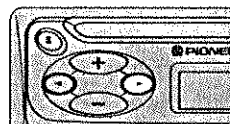
"FIE" appears on the display.

After adjustment use the **S** button to return to the normal display.



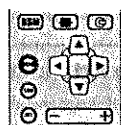
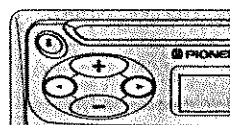
2. Press the (▶) button to activate the F. I. E. function.

"FIE" is displayed and "FIE" indicator lights on the display.



- To cancel the F. I. E. function, press the (◀) button.

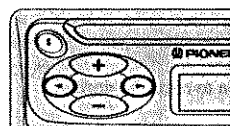
"FIE" indicator OFF.



3. Use the **S** button to select the Fader/Balance mode.

This function adjusts the front and rear speaker volumes for better balanced listening.

(Refer to next section.)



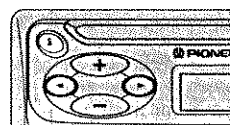
Balance Adjustment

The function allows you to select a Fader/Balance setting that provides ideal listening conditions in all occupied seats.

1. Press the **S** button 2 times to select the Fader/Balance mode.

"F-" or "B-" appears on the display.

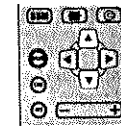
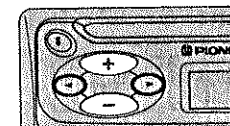
After adjustment use the **S** button to return to the normal display.



2. Press the (+) or (▲) button or the (-) or (▼) button to shift the balance progressively to the front or rear speakers.

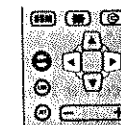
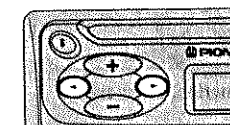
"F-F15" ~ "F-R15" is displayed as it moves from front to rear.

Note: "F-0" is the proper setting when 2 speakers are in use.



3. Press the (◀) button or the (▶) button to shift the balance to the left or right speaker, respectively.

"B-L9" ~ "B-R9" is displayed as it moves from left to right.



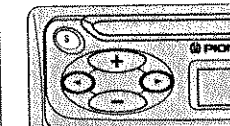
Bass/Treble Adjustment

This tuner/CD player is equipped with two tone adjustment modes, the Bass Adjustment and Treble Adjustment modes.

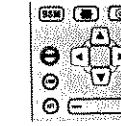
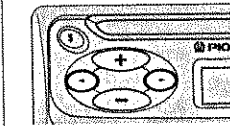
1. Press the **S** button 3 times to select tone adjustment mode.

"BAS" or "TRE" appears on the display.

After adjustment use the **S** button to return to the normal display.

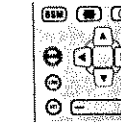
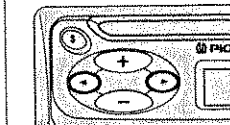


2. Press the (◀) button or the (▶) button to select "Bass Adjustment mode" or "Treble Adjustment mode".



3. Press the (+) or (▲) button or the (-) or (▼) button, respectively, to increase or decrease the intensity of the bass or treble, whichever is selected.

The display shows "+6" ~ "-6".

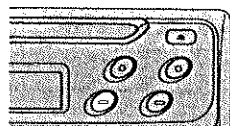
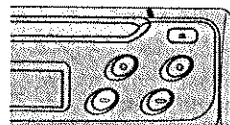


4. Repeat steps 2-3 above for the other Bass or Treble Adjustment mode.

Loudness Adjustment

The Loudness function compensates for deficiencies in the low and high sound ranges at low volume.

- Press the **LOUD** button to activate the Loudness function.
"LOUD" indicator lights.
- To cancel the Loudness function, press the **LOUD** button again.



Disc Selection and Care

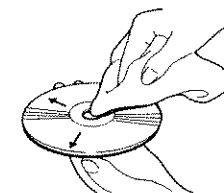
- Play only CDs bearing the Compact Disc Digital Audio mark.



- Check all CDs before playing, and discard cracked, scratched or warped discs.



- Wipe dirty or damp discs outward from the center with a soft cloth.



- Avoid touching the recorded (iridescent) surface when handling discs.
- Store discs in their cases when not in use.

Precaution:

- * Keep discs out of direct sunlight and high temperatures.
- * Do not affix labels or apply chemicals to discs.
- * Condensation may collect inside the player when using the heater in cold weather, interfering with playback. Turn it off for an hour or so and wipe damp discs with a soft cloth.
- * Road shocks may interrupt CD playback.

Using the Built-in CD Player

The built-in CD player plays one standard 12 cm or 8 cm (single) CD at a time. Do not use an adapter when playing 8 cm CD.

Inserting and Removing Discs

- Insert the disc with the recorded (iridescent) surface down.

CD playback begins immediately, whether or not the player is ON or the built-in CD source selected. The track number and playing time are displayed.

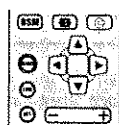
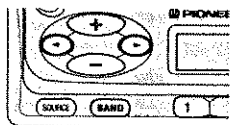
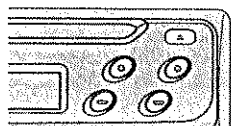
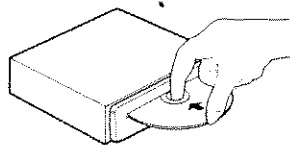
- Press the **Eject** button to eject any disc loaded in the disc slot.

Playing the Built-in CD player

- To play a CD that is already loaded, press the **SOURCE** or **CD** button with a CD loaded to select the built-in CD player.

The built-in CD player is selected only when a CD is loaded.

Note: See "Audio Adjustment" on pages 19-22 for volume and tone adjustment.

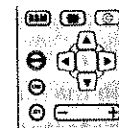
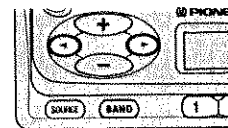


- To stop CD playback, press the **SOURCE** button or **CD** button to select the tuner or turn the source OFF.

When the built-in CD player is selected again, playback begins at approximately the same place (track/playing time).

Precaution:

- * Inserting more than one disc at a time may damage the built-in CD player.
- * Discs left partially inserted after ejection may incur damage or fall out.
- * If a disc cannot be inserted fully or playback fails, make sure the recorded side is down, push the Eject button and check the disc for damage before reinserting it.
- * If a CD is inserted with the recorded side up, it will be ejected automatically after a few moments.
- * If the built-in CD player cannot operate properly, an error message (such as ER-14) appears on the display. Refer to "CD Player Troubleshooting" on page 29.



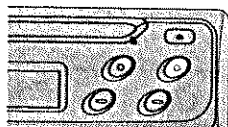
Track Search and Fast-forward/Reverse

Switching the Mode

- Press the **MANU** button to switch between "MANU" indicator ON and OFF.

When performing a Track Search, switch the "MANU" indicator OFF.

When performing Fast-forward/Reverse operations, switch playback time appears and the "MANU" indicator ON.

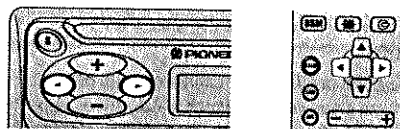


Track Search

This feature permits you to select a specific track on the CD by number.

- Press the (◀) button or the (▶) button to reverse or advance track by track.

Hold down the button continuously for high-speed forward or reverse track searching. The track number and playing time change appropriately on the display.



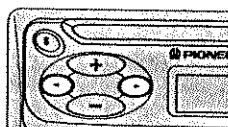
Fast-forward/Reverse

This feature enables you to advance or reverse at high speed between tracks.

- Press the (◀) or (▶) button to reverse or fast-forward through tracks.

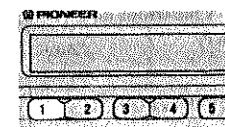
When the beginning or end of a track is reached, playback skips to the next track. The track number and playing time change appropriately on the display.

Note: The audio is audible as a high-pitched screeching during fast-forward and reverse.



Pause

- Press button 1 to stop playback temporarily. "PAUSE" is displayed. Push the button again to restart playback.

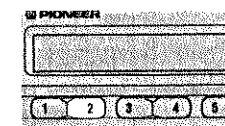


Built-in CD Player Repeat Modes

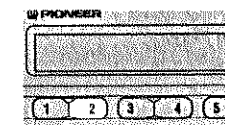
The built-in CD player offers two repeat modes: Disc Repeat (normal play), the default mode, and One-track Repeat.

- To select One-track Repeat, press button 2. "RPT" appears on the display.

Note: When Track Number Search or fast forward/reverse is performed, the mode returns to the default Disc Repeat mode (normal play).



- Press the button 2 again to return to the Disc Repeat mode (normal play). "RPT" disappears.



Random Play

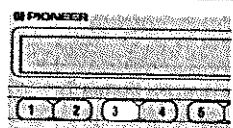
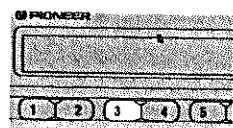
The Random Play mode plays the tracks on a CD in random order for variety.

- To enter the Random Play mode, press button 3.

"RDM" appears on the display.

- Press button 3 again to cancel Random Play.

Note: Since playback is random, the same track may be repeated consecutively.



Scan Play

Scan Play plays the first 10 seconds or so of each track on a CD in succession.

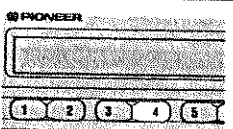
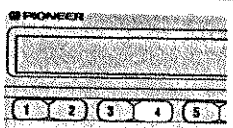
- Press button 4 to start Scan Play.

"SCN" appears on the display.

- Push button 4 again to cancel Scan Play when you hear a track you are want to listen to.

Playback of the current track continues.

Note: Scan Play is canceled automatically after all the tracks on a disc have been scanned.



CD Player Troubleshooting

When problems occur with CD playback, an error message appears on the display. Refer to the table below to identify the problem, then take the suggested corrective action. If the error persists, contact your dealer or your nearest PIONEER Service Station.

Message	Possible cause	Recommended action
ER- 11, 12, 14, 17, 30	Dirty disc.	Clean the disc.
ER- 11, 12, 17, 30	Scratched disc.	Replace the disc.
ER- 14	Unrecorded CD.	Check the disc.
ER- 10, 11, 12, 14, 17, 30, A0	Electrical or mechanical problem.	Turn the ignition ON and OFF, or switch to a different source, then back to the CD player.
HEAT	CD player overheating.	Discontinue play until the machine temperature drops.

Specifications

General

Power source	14.4 V DC (10.8 — 15.1 V allowable)
Grounding system	Negative type
Max. current consumption	10.0 A
Dimensions	
(DIN) (chassis)	178 (W) × 50 (H) × 150 (D) mm
(nose)	188 (W) × 58 (H) × 22 (D) mm
(D) (chassis)	178 (W) × 50 (H) × 155 (D) mm
(nose)	170 (W) × 48 (H) × 17 (D) mm
Weight	1.5 kg

Amplifier

Continuous power output is 15 W per channel min. into 4 ohms, both channels driven 50 to 15,000 Hz with no more than 5% THD.	
Maximum power output	35 W × 4
Continuous power output	15 W × 4 (1% dist. at 1 kHz)
Load impedance	4 Ω (4 — 8 Ω allowable)
Preout output level/output impedance	500 mV/1 kΩ
Tone controls	
(Bass)	±12 dB (100 Hz)
(Treble)	±12 dB (10 kHz)
Loudness contour	+10 dB (100 Hz), +7 dB (10 kHz) (volume: -30 dB)

CD player

System	Compact disc audio system
Usable discs	Compact disc
Signal format	Sampling frequency: 44.1 kHz Number of quantization bits: 16; linear
Frequency characteristics	5 — 20,000 Hz (±1 dB)
Signal-to-noise ratio	94 dB (1 kHz)(IEC-A network)
Dynamic range	90 dB (1 kHz)
Number of channels	2 (stereo)

FM tuner

Frequency range	87.5 — 108 MHz
Usable sensitivity	11 dBf (1.0 μV/75 Ω, mono, S/N: 30 dB)
50 dB quieting sensitivity	16 dBf (1.7 μV/75 Ω, mono)
Signal-to-noise ratio	70 dB (IEC-A network)
Distortion	0.3% (at 65 dBf, 1 kHz, stereo)
Frequency response	30 — 15,000 Hz (±3 dB)
Stereo separation	40 dB (at 65 dBf, 1 kHz)

AM tuner

Frequency range	531 — 1,602 kHz (9 kHz) 530 — 1,710 kHz (10 kHz)
Usable sensitivity	18 μV (25 dB) (S/N: 20 dB)
Selectivity	50 dB (±9 kHz) 50 dB (±10 kHz)

Note:

Specifications and the design are subject to possible modification without notice due to improvements.

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